

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Sonat Raton, L.L. C. P.O. Box 190 Raton, NM 87740		² OGRID Number 180514
		³ API Number 30 - 007-20108
³ Property Code 24648 25179	⁵ Property Name Vermejo Park Ranch	⁶ Well No. VPR D-20 (Formerly Castle Rock 91-2)

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	31N	18E		742'	FSL	1752'	FWL	Colfax

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
⁹ Proposed Pool 1 Vermejo					¹⁰ Proposed Pool 2 Raton				

¹¹ Work Type Code E	¹² Well Type Code KG	¹³ Cable/Rotary Completion Rig	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 8617 (GL)
¹⁶ Mu type NO	¹⁷ Proposed Depth 2180'	¹⁸ Formation Vermejo	¹⁹ Contractor Not Available	²⁰ Spud Date January 7, 2000

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	327'	150 sx.	
7 7/8"	5 1/2"	17#	2169'	300 sx.	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. RU completion rig. Install BOP, PU and RIH with 4 3/4" bit on 2 7/8" tubing.
2. Drill out surface plug 0' to 50' and CIBP's at 1688' & 1842'. Reverse circulate clean with fresh or clean produced water to PBTD at 2126'.
3. Perforate and frac according to Raton/Houston offices.
4. Clean out to bottom and reverse circulate clean.
5. RIH with pumping equipment and place on test.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *DR Lankford*

Printed name: Donald R. Lankford

Title: Senior Petroleum Engineer

Date: 12/20/99

Phone: (505) 445-4620

Approved by

Title: **DISTRICT SUPERVISOR**

Approval Date: **12/27/99**

Expiration Date: **12/27/00**

Conditions of Approval:

Attached ☐

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-87

DISTRICT I
P.O. Box 1260, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2083
Santa Fe, New Mexico 87504-2083

WELL API NO. 30-007-20108
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coal Methane	7. Lease Name or Unit Agreement Name Castle Rock 3118
2. Name of Operator Pennzoil Exploration & Production Company	8. Well No. 161-H 323N 91-2
3. Address of Operator P.O. Box 2967, Houston, TX 77252	9. Pool name or Wildcat Wildcat
4. Well Location Unit Letter N : 742 Feet From The South Line and 1752 Feet From The West Line Section 32 Township 31 N Range 18 E NMPM Colfax County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 8617 GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒
CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

8/13/91 Start of work.

1. Remove surface equipment, pull rods and tubing.
2. Set CIBP @ 1842' w/2 sks (18') class A @ 15.6 on plug.
3. Set CIBP @ 1688' w/12 sks (108') class A @ 15.6 ppg. Fill to surface w/9.3 Gel mud.
4. Place 6 sks (50') surface plug w/class A @ 15.6 ppg.
5. Place well marker, fill pit, remove junk and debris from location.
6. Casing left in well: 22' of 13 3/8" set @ 22',
327' of 8 5/8", 24 lb/ft set @ 327',
2169' of 5 1/2", 17 lb/ft set @ 2169'.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE L. D. Williamson

TITLE Operations Superintendent DATE 9/05/91

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 376-2817

(This space for State Use)

APPROVED BY Ry E. Johnson

TITLE DISTRICT SUPERVISOR DATE 9-20-91

CONDITIONS OF APPROVAL, IF ANY:

91-2
Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-007-20108
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Castle Rock 3118
8. Well No. 323-N
9. Pool name or Wildcat Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coal Methane	
2. Name of Operator Pennzoil Exploration & Production Company	
3. Address of Operator P.O. Box 2867, Houston, TX 77252	
4. Well Location Unit Letter N : 742 Feet From The South Line and 175.2 Feet From The West Line Section 32 Township 31N Range 18E NMPM Colfax County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 8617 GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER: <input type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

8/30/81 Estimated start of work.

1. Remove surface equipment, pull rods and tubing.
2. Set CIBP @ 1840' with 2 sks (18') class A @ 15.6 on plug.
3. Set CIBP @ 1690' with 12 sks (108') class A @ 15.6 ppg. Fill to surface with Gel mud.
4. Place 6 sks (50') surface plug with class A @ 15.6 ppg.
5. Place well marker, fill pit, remove junk and debris from location.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 7/09/91

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 376-2817

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 7-10-91

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 83210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

30-007-20108

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER Coal Methane

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐

2. Name of Operator

Pennzoil Exploration & Production Company

3. Address of Operator

P.O. Box 2967, Houston, TX 77252

4. Well Location

Unit Letter N : 742 Feet From The South Line and 175 Feet From The West Line

Section 32

Township 31 N

Range 18 E

NMPM Colfax

County

10. Date Spudded

1/24/91

11. Date T.D. Reached

1/29/91

12. Date Compl. (Ready to Prod.)

4/09/91

13. Elevations (L&F & RKB, RT, GR, etc.)

8617 GR

14. Elev. Casinghead

8619

15. Total Depth

2180

16. Plug Back T.D.

2126

17. If Multiple Compl. How Many Zones?

18. Interval Drilled by

Rotary Tools
0-2126

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

1712-1963 Various coals--out of zone perf test

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

CBL, Gamma, Caliper, Density, Dual Induction, Deviation

22. Was Well Cored

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8		22	17 1/2		0
8 5/8	24	327	12 1/4	150 sks class G	0
5 1/2	17	2169	7 7/8	300 sks lite	0

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD
					SIZE DEPTH SET PACKER SET
					2 7/8 2011 NA

26. Perforation record (interval, size, and number)

1958-63 2-.44 SPF
1863-68 4-.44 SPF
1712-17 4-.44 SPF

Perfs in shale

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
1712-1717	142,000 sand
1863-1963	144,000 sand

28. PRODUCTION

Date First Production 4/10/91		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping				Well Status (Prod. or Shut-in) Prod.	
Date of Test 4/13/91	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl. 0	Gas - MCF 190	Water - Bbl. 411	Gas - Oil Ratio NA
Flow Tubing Press. NA	Casing Pressure 15	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 190	Water - Bbl. 411	Oil Gravity - API - (Corr.) NA	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Flared

Test Witnessed By

Jim Thurmond

30. List Attachments

Coal Summary, Mud & Electric Logs previously submitted.

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Printed Name

L. D. Williamson

Title Operations Supt. Date 4/16/91

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1940, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-007-20108	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Castle Rock 3118	
8. Well No. 323 N	
9. Pool name or Wildcat Wildcat	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 8617 GR	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coal Methane	
2. Name of Operator Pennzoil Exploration and Production Company	
3. Address of Operator P.O. Box 2967, Houston, TX 77252	
4. Well Location Unit Letter <u>N</u> : <u>742</u> Feet From The <u>South</u> Line and <u>1752</u> Feet From The <u>West</u> Line Section <u>32</u> Township <u>31 N</u> Range <u>18 E</u> NMPM Colfax County	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER: <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>
		OTHER: <input type="checkbox"/>	Drilling Completed <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1/24/91 Drill 17 1/2" hole to 22 1/2'. Set 22', 13 3/8" conductor.
1/25/91 Drill 12 1/4" hole to 330'. Set and cement 12 jts (227'), 8 5/8, 24.0 lb. K-55, ST&C casing w/150 sks Class G @ 15.8 ppg. Cement to Surface.
1/27/91 Test BOP and casing to 600 psi for 30 minutes. No pressure drop.
1/29/91 Drill 7 7/8" hole to 2180'. LOG. Set and cement 69 jts (2169'), 5 1/2", 17.0 lb, K-55, LT&C casing w/300 sks silicalite @ 11.5 ppg. Cement to surface. Rig released. Wait on completion tools.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 2/05/91

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 505-376-2817

APPROVED BY R. E. Johnson TITLE DISTRICT SUPERVISOR DATE 2-7-91

CONDITIONS OF APPROVAL, IF ANY

Submit to Appropriate
District Office
State Lease - 6 copies
Free Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form O-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (Assigned by OCD on New Wells)

30-007-20108

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Lease Name or Unit Agreement Name Castle Rock 3118			
b. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coal Methane <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Well No. 323 N			
2. Name of Operator Pennzoil Exploration & Production Company		9. Pool name or Wildcat Wildcat			
3. Address of Operator P.O. Box 2967, Houston, TX 77252					
4. Well Location Unit Letter <u>N</u> : <u>742</u> Feet From The <u>South</u> Line and <u>1752</u> Feet From The <u>West</u> Line Section <u>32</u> Township <u>31 N</u> Range <u>18 E</u> NMPM Colfax County					
10. Proposed Depth 2200		11. Formation Vermejo			
12. Rotary or C.T. Rotary					
13. Elevations (Show whether DF, RT, GR, etc.) 8617 GR		14. Kind & Status Plug. Bond Blanket			
15. Drilling Contractor Finley		16. Approx. Date Work will start 2/1/91			
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24	300	175	Surface
7 7/8	5 1/2	17	2200	450	Surface

1. Drill 12 1/4" hole to 330' with air mist.
2. Set and cement 8 5/8" casing.
3. Drill 7 7/8" hole to 2200' with air mist
4. LOG
5. Set and cement 5 1/2" casing.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 7-18-91
UNLESS DRILLING UNDERWAY

OIL CONSERVATION COMMISSION TO BE NOTIFIED
WITHIN 24 HOURS OF BEGINNING OPERATIONS

JAN 25 1991
WESTERN DIVISION

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 1/15/91

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 376-2817

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 1-18-91

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the section.

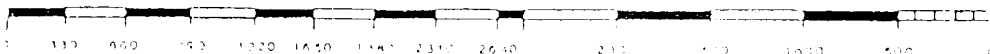
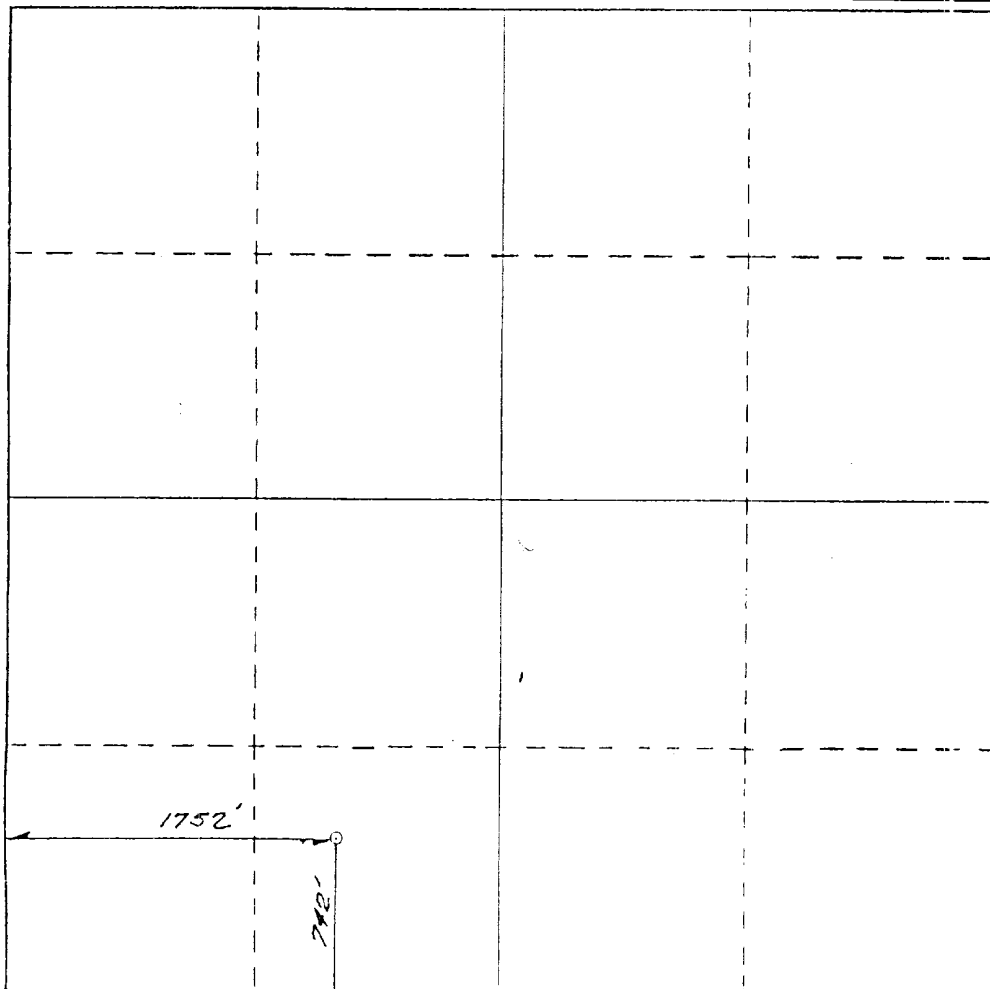
Operator VERMEJO MINERALS CORP.			Lease		Well No. (91-2) 323
Unit Letter N	Section 32	Township T31N	Range R18E	County COLFAX	
Actual Footage Location of Well:					
742 feet from the SOUTH line and		1752 feet from the WEST line			
Ground Level Elev. 8617	Producing Formation	Pool	Dedicated Acreage: Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name _____	
Position _____	
Company _____	
Date _____	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.	
Date Surveyed _____	_____
Registered Professional Engineer and/or Land Surveyor	
N.M.L.S. NO. 5103	
Certificate No. _____	